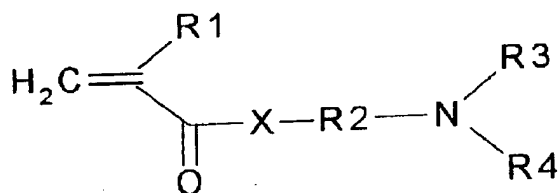


What is claimed is:

1. An antimicrobial polymer blend,
characterized in that
one or more antimicrobial polymers each obtainable
by polymerizing a monomer of the formula I



where

R1 = -H or -CH₃

R2 = branched or unbranched aliphatic hydrocarbon
radical having from 1 to 5 carbon atoms,

R3 = H, or branched or unbranched aliphatic
hydrocarbon radical having from 1 to 7 carbon
atoms,

R4 = H, or branched or unbranched aliphatic
hydrocarbon radical having from 1 to 7 carbon
atoms,

R5 = H, or branched or unbranched aliphatic
hydrocarbon radical having from 1 to 7 carbon
atoms, and

X = O, NH, NR5

are mixed with at least one other polymer other
than cellulose acetate butyrate and polyesters.

2. The antimicrobial polymer blend as claimed in
claim 1,
characterized in that
the polymer blend is composed of from 0.2 to 90%
by weight of one or more antimicrobial polymers.

3. The antimicrobial polymer blend as claimed in
claim 1 or 2,
characterized in that

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the monomer used of the formula I is 2-tert-butylaminoethyl methacrylate, 2-diethylaminoethyl methacrylate, 2-dimethylaminomethyl methacrylate, 2-tert-butylaminoethyl acrylate, 3-dimethylamino-propyl acrylate, 2-diethylaminoethyl acrylate, 2-dimethylaminoethyl acrylate, N-3-dimethylamino-propylmethacrylamide, N-3-diethylaminopropylmethacrylamide, N-3-dimethylaminopropylacrylamide, or N-3-diethylaminopropylacrylamide.

4. The antimicrobial polymer blend as claimed in claim 1 or 2, characterized in that the monomer used of the formula I is 2-tert-butylaminoethyl methacrylate, 2-diethylaminoethyl methacrylate, 2-dimethylaminomethyl methacrylate, 2-tert-butylaminoethyl acrylate, 3-dimethylamino-propyl acrylate, 2-diethylaminoethyl acrylate, 2-dimethylaminoethyl acrylate, N-3-dimethylamino-propylmethacrylamide, N-3-diethylaminopropylmethacrylamide, N-3-dimethylaminopropylacrylamide, or N-3-diethylaminopropylacrylamide.
5. The antimicrobial polymer blend as claimed in any of claims 1 to 4, characterized in that the other polymer used comprises polyurethanes, polyolefins, polyethylene, polypropylene, polysiloxanes, polystyrene, polyacrylates, polymethyl methacrylate, PVC, polyamides or polyterephthalates.
6. The use of the antimicrobial polymer blends as claimed in any of claims 1 to 5 for producing items for medical technology.
7. The use of the antimicrobial polymer blends as claimed in any of claims 1 to 5 for producing hygiene items.

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8. The use of the antimicrobial polymer blends as claimed in any of claims 1 to 5 in surface coatings, protective paints, or other coatings.
- 5 9. The use of the antimicrobial polymer blends as claimed in any of claims 1 to 5 in biocidal formulations.
- 10 10. The use of the antimicrobial polymer blends as claimed in any of claims 1 to 5 for producing films, tarpaulins, fabrics, or fibers.
- 15 11. The use of the antimicrobial polymer blends as claimed in any of claims 1 to 5 in formulations for ointments or pastes.
- 20 12. A process for sterilizing cooling water streams, which comprises adding antimicrobial polymer blends as claimed in any of claims 1 to 5 in dispersed form to the cooling water.